High DefinitionPlasma Display **TH-42PD12E**

■Product summary

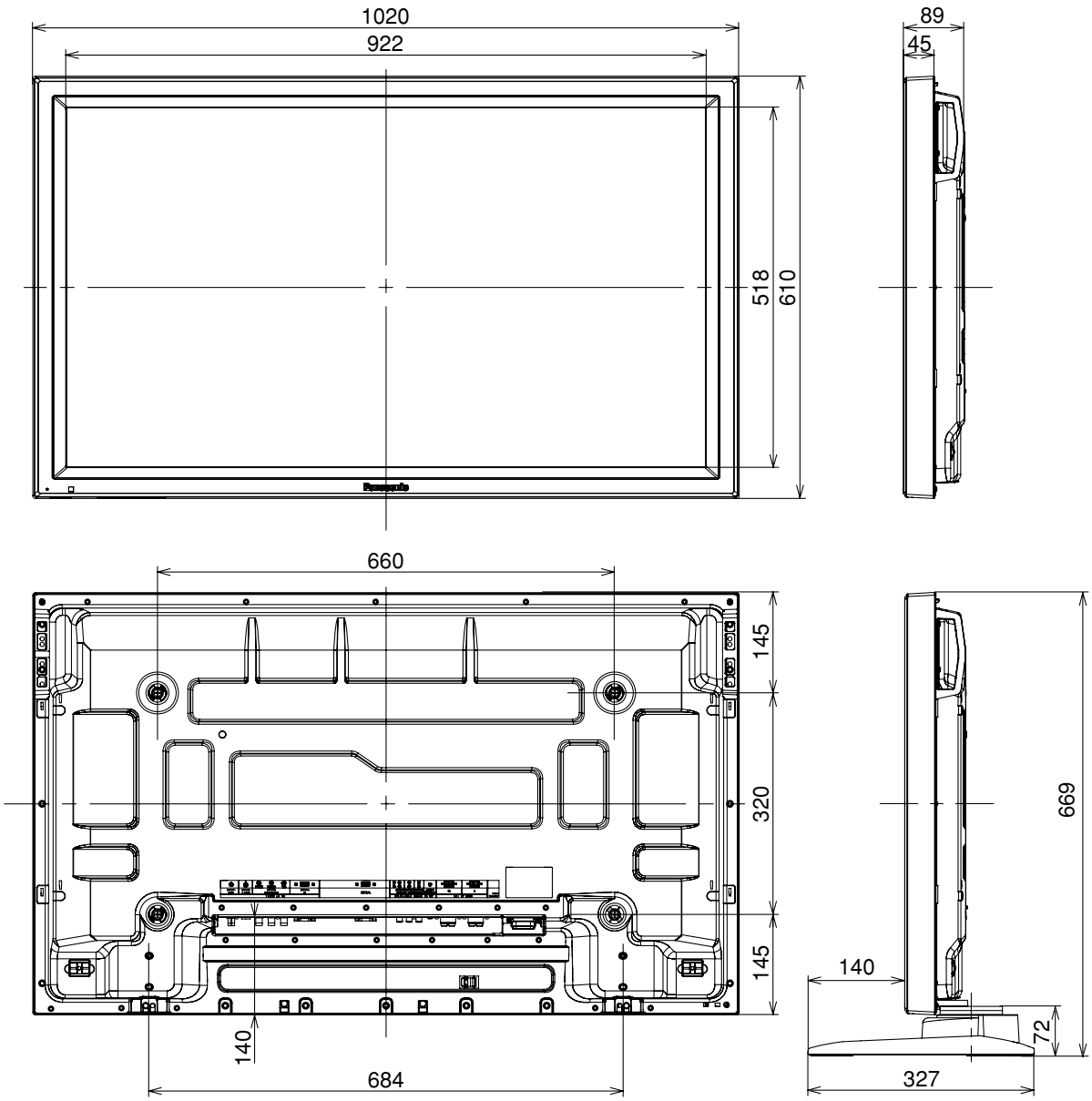
- 42″ High Definition Plasma Display for professional use.
- Available with various unique professional features-Vertical Mounting, Dual picture mode, Digital zoom, Built-in video wall image enlarger, etc..
- Various Energy-saving functions-DPMS, Auto power off, Power save mode, etc..

■Product specification (Design and specifications subject to change without notice)

DISPLAY			
	Screen Size (Diagonal)	42-inch (1,057 mm)	
	Aspect Ratio	16:9	
	Effective Display Area (W x H)	922 x 518 mm	
	Resolution (H x V)	1,024 x 768 pixels (1 pixel=3 cells for R, G and B)	
	Pixel Pitch (H x V)	0.900 x 0.675 mm	
	Brightnes	1,400 cd/m^2	
	Contrast Ratio (Bright room)	30,000:1 (400:1)	
	Dynamic Contrast Ratio	1,000,000:1	
	Gradation	5,120 steps (equivalent)	
APPLICABLE SIGNALS			
	Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC,	
	Scanning Format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p,	
		1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	
	PC Signal Compatibility	VGA, SVGA, XGA, WXGA, SXGA, UXGA	
		(Over XGA resolution : compressed)	
		Horizontal scanning frequency 15-110 kHz	
		Vertical scanning frequency 48-120 Hz	
INPUT / OUTPUT			
	CVBS IN	CVBS x 1	1.0 V p-p (75 Ω)
	AUDIO IN (L/R)	RCA pin jack x 2	0.5 V rms
	S-VIDEO IN	Mini Din 4 pin x 1	Y : 1.0 V p-p (75 Ω) C : 0.286 V p-p (75 Ω)
	AUDIO IN (L/R)	RCA pin jack x 2	0.5 V rms
	COMPONENT IN	BNC x 3	Y/G : with sync 1.0 V p-p (75 Ω) P_B/B, P_R/R : 0.7 V p-p (75 Ω)
	AUDIO IN (L/R)	RCA pin jack x 2	0.5 V rms
	PC IN	MINI D-SUB 15PIN x 1 (Female)	Y/G : with sync 1.0 V p-p (75 Ω) P_B/B, P_R/R : 0.7 V p-p (75 Ω) HD/VD : 1.0~5.0 V p-p (high impedance) Plug & Play (VESA DDC 2B)
	AUDIO IN	M3 JACK x 1	
	SERIAL	D-SUB 9PIN x 1 (EXTERNAL CONTROL TERMINAL), RS-232C COMPATIBLE	
ELECTRICAL			
	Power Requirements	220-240 V AC, 50 Hz/60 Hz	
	Power Consumption	260 W	
	Power Off Condition	0.4 W	
	Stand-by Condition	Save OFF 1.0 W, Save ON 0.6 W	
SOUND			
	Audio Output	16 W [8 W + 8 W] (10 % THD)	
MECHANICAL			
	Dimensions (W x H x D)	1,020 x 610 x 89 mm	
	Weight	23.0 kg	
	Cabinet Color	Black	
ENVIRONMENTAL			
Operating Environment			
	Temperature	0 °C to 40 °C	
	Humidity	20 % to 80 % (Non condensation)	
	Altitude	0 to 2,800 m	
Storage Environment			
	Temperature	–20 °C to 60 °C	
	Humidity	20 % to 90 % (Non condensation)	
	Altitude	0 to 3,300 m	
SAFETY REGULATIONS			
	EN60065 Ver.7		
RADIATION REGULATIONS			
	EN55022 Class-B, EN55024 EN61000-3-2, EN61000-3-3		
REMOTE CONTROL TRANSMITTER			
	Power Requirements	DC 3 V (2 x AA Size batteries)	
	Operation Distance	approx. 7 m in front of plasma display	
	Weight	approx. 100 g including batteries	
INCLUDED ACCESSORIES			
	• Fixing Band • AC Power Cord • Operating Instruction Book • Remote Control Transmitter • Batteries		
OPTIONAL ACCESSORIES			
	• Wall-hanging Bracket (vertical, angled, drawer type) • Pedestal • Ceiling-hanging Bracket • Mobile Stand • Touch Panel • Speakers • Anti-Glare Filter		

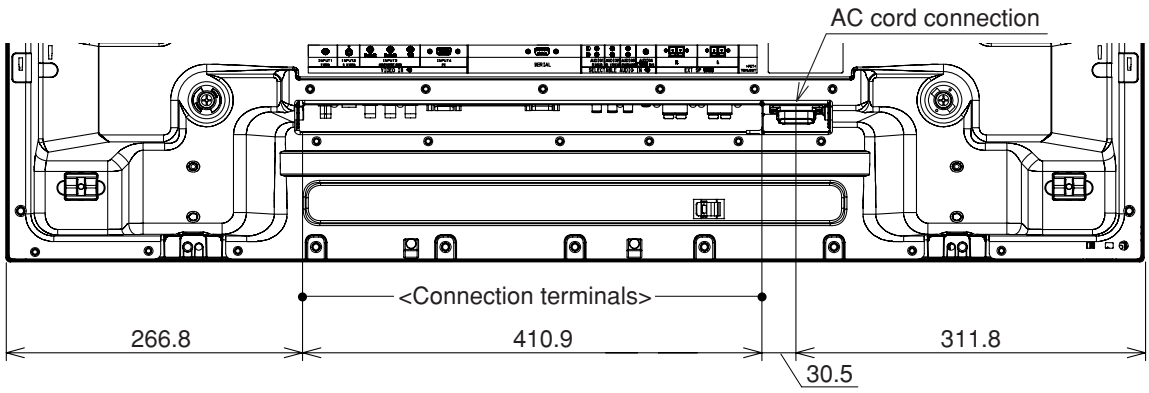
■**Dimensions** (Shown with optional Pedestal stand)

Units : mm



With the option pedestal
TY-ST08 attached

<Terminal dimension>



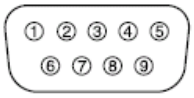
<Connection terminals>

		P$_B$/C$_W$/R	P$_R$/C$_R$/B	Y/G			L						
INPUT1 VIDEO	INPUT2 S VIDEO	INPUT3 COMPONENT/RGB			INPUT4 PC	SERIAL	R	AUDIO1 (VIDEO)	AUDIO2 (S VIDEO)	AUDIO3 (COMPONENT/RGB)	AUDIO4 (PC)	R	L
VIDEO IN							SELECTABLE AUDIO IN					EXT SP (6 Ω)	

Preset Input Signals

	Signal name	horizontal frequency(kHz)	vertical frequency(Hz)	Component Video	Composite Video	PC IN(D-sub 15-pin)
Composite	NTSC	15.73	59.94		Y	
	PAL	15.63	50.00		Y	
	PAL60	15.73	59.94		Y	
	SECAM	15.63	50.00		Y	
	Modified NTSC	15.73	59.94		Y	
Component / RGB	525(480)/60i	15.73	59.94	Y		Y
	525(480)/60p	31.47	59.94	Y		Y
	625(575)/50i	15.63	50.00	Y		Y
	625(575)/50p	31.25	50.00	Y		Y
	750(720)/60p	45.00	60.00	Y		Y
	750(720)/50p	37.50	50.00	Y		Y
	1125(1080)/60i	33.75	60.00	Y		Y
	1125(1080)/60p	67.50	60.00	Y		Y
	1125(1080)/50i	28.13	50.00	Y		Y
	1125(1080)/50p	56.25	50.00	Y		Y
	1125(1080)/30p	33.75	30.00	Y		Y
	1125(1080)/25p	28.13	25.00	Y		Y
	1125(1080)/24p	27.00	24.00	Y		Y
	1125(1080)/24sF	27.00	48.00	Y		Y
	1250(1080)/50i	31.25	50.00	Y		Y
RGB	640×400@70Hz	31.46	70.07	Y		Y
	640×480@60Hz	31.47	59.94	Y		Y
	640×480@72Hz	37.86	72.81	Y		Y
	640×480@75Hz	37.50	75.00	Y		Y
	640×480@85Hz	43.27	85.01	Y		Y
	800×600@56Hz	35.16	56.25	Y		Y
	800×600@60Hz	37.88	60.32	Y		Y
	800×600@72Hz	48.08	72.19	Y		Y
	800×600@75Hz	46.88	75.00	Y		Y
	800×600@85Hz	53.67	85.06	Y		Y
	852×480@60Hz	31.47	59.94	Y		Y
	1024×768@60Hz	48.36	60.00	Y		Y
	1024×768@70Hz	56.48	70.07	Y		Y
	1024×768@75Hz	60.02	75.03	Y		Y
	1024×768@85Hz	68.68	85.00	Y		Y
	1066×600@60Hz	37.64	59.94	Y		Y
	1152×864@75Hz	67.50	75.00	Y		Y
	1280×768@60Hz	47.70	60.00	Y		Y
	1280×960@60Hz	60.00	60.00	Y		Y
	1280×960@85Hz	85.94	85.00	Y		Y
	1280×1024@60Hz	63.98	60.02	Y		Y
	1280×1024@75Hz	79.98	75.03	Y		Y
	1280×1024@85Hz	91.15	85.02	Y		Y
	1366×768@60Hz	48.36	60.00	Y		Y
	1600×1200@60Hz	75.00	60.00	Y		Y
	1600×1200@65Hz	81.25	65.00	Y		Y
	Mac13"(640×480)	35.00	66.67	Y		Y
	Mac16"(832×624)	49.72	74.54	Y		Y
	Mac21"(1152×870)	68.68	75.06	Y		Y

Serial RS232C : D-sub 9-Pin (Male)



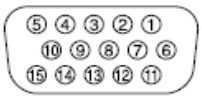
Pin Assignment and Signal Name

Pin No.	Signal name	Descriptions
1	CD	NC
2	RXD	Receive Data
3	TXD	Transmit Data
4	DTR	Not used
5	GND	Ground
6	DSR	Not used
7	RTS	Short Circuit
8	CTS	
9	RI	NC

Transmitting Conditions

Signal Level	Complied with RS232C
Synchronization method	Asynchronous
Baud Rate	9600 bps
Parity	None
Character Length	8 bits
Stop Bit	1 bit
Flow control	-

PC Input : D-Sub 15-Pin (Female)



Signal Name

Pin No.	Signal name
1	R (P_R/C_R)
2	G (Y)
3	B (P_B/C_B)
4	NC (Not connected)
5	GND (Ground)
6	GND (Ground)
7	GND (Ground)
8	GND (Ground)
9	+5V DC
10	GND (Ground)
11	NC (Not connected)
12	SDA
13	HD/SYNC
14	VD
15	SCL